H1
MOUNT-HOLE3.2
H2
MOUNT-HOLE3.2
H3
MOUNT-HOLE3.2
H4
MOUNT-HOLE3.2

+5V

CONS,DCC_IN,LED,RESET,RX,SERVO[1..8],TX

R5
1k5
OK1
X20-1
X20-2
D1
1N4148
6N137
2
3
8
7
6
5
R7 10k
R6 10k
C5
10n
GND
DCC_IN

+5V/2
R1
4k7
SV1
3
2
1
+5V/2
SERVO1
GND

Q2
TIP41C
+5V/2

X2-2 X2-1

D2
1N4004
IC1
7805TV
VI   VO
GND
1   3
2
+5V

C41
220uF 25V
C45
100n
GND

JP1
2
1
GND
SERVO2

+5V/2
R2
4k7
SV2
3
2
1
+5V/2
GND

X1-3
X1-2
X1-1
22-23-2031
GND
TX
RX

SV7
3
2
1
+5V/2
R11
4k7
+5V/2
+5V/2
SERVO3
GND

+5V/2
R3
4k7
SV3
3
2
1
+5V/2
GND

SV8
3
2
1
+5V/2
R12
4k7
+5V/2
+5V/2
SERVO4
GND

+5V/2
R4
4k7
SV4
3
2
1
+5V/2
GND

10k
R13
+5V
LED1
LED
+5V

+5V/2
R8
4k7
SV5
3
2
1
+5V/2
SERVO5
GND

+5V

R10
10k

MEGA328-P
PC6(/RESET)   1
GND   22
AREF   21
AVCC   20
PB6(XTAL1/TOSC1) 9
PB7(XTAL2/TOSC2) 10
GND   8
VCC   7

PC0(ADC0)   23   SERVO6
PC1(ADC1)   24
PC2(ADC2)   25
PC3(ADC3)   26
PC4(ADC4/SDA) 27   SERVO7
PC5(ADC5/SCL) 28   SERVO8

PD0(RXD)   2   RX
PD1(TXD)   3   TX
PD2(INT0)   4   DCC_IN
PD3(INT1)   5
PD4(XCK/T0)   6   LED
PD5(T1)   11
PD6(AIN0)   12
PD7(AIN1)   13   CONS

PB0(ICP)   14   SERVO1
PB1(OC1A)   15   SERVO2
PB2(SS/OC1B)   16   SERVO3
PB3(MOSI/OC2) 17   SERVO4
PB4(MISO)   18   SERVO5
PB5(SCK)   19

IC3

+5V/2
R9
4k7
SV6
3
2
1
+5V/2
SERVO6
GND

Q1
16MHz
S1
1
2
3
4

C6
100n
C4
100n
C2
33pF
C1
33pF
C7
100n

GND GND GND GND GND GND +5V

GND
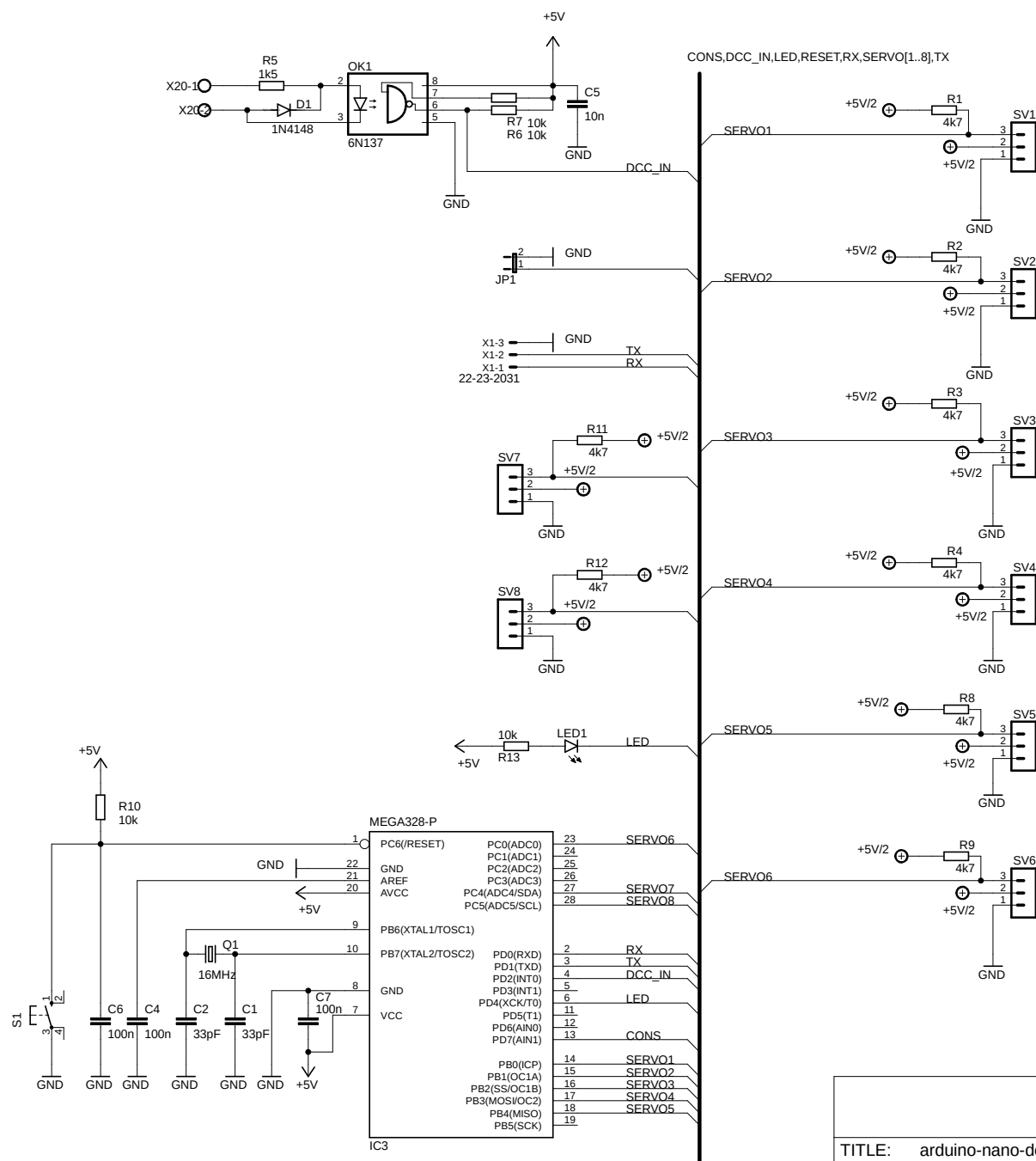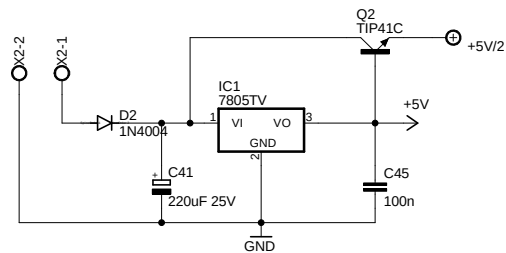
TITLE: arduino-nano-dcc-v3

Document Number: REV:
                                                         3

Date: 26-5-2022 14:38   Sheet: 1/1

26-5-2022 14:38 f=0.74 C:\Git\ArduinoMega328DccServo\trunk\work\Hardware\arduino-nano-dcc-v3.sch (Sheet: 1/1)